IAN KENT Software Engineer

Summary

- Backend software engineer with 6 years professional coding experience working in multi-disciplinary, Agile teams
- Passionate coder who believes in doing things the right way, both inside and outside of the codebase
- Looking for a role where I can make use of (and continue to grow) my technical and leadership skills while continually delivering high-quality software

Experience

Software Engineer, T-Mobile
Atlanta, GA - July 2020 to Present

- Backend engineer within Supply Chain org - focusing on aggregating device lifecycle data to enable business flows such as return processing and device activation
- Developed microservices with various functions including asynchronous data ingestion (following the **Pub-Sub** model) and **REST APIs**
- Took part in various modernization initiatives, such as upgrading **Spring Boot** microservices from **Java 8** to **Java 17**, Spring Boot 1 to Spring Boot 2, and migrating deployed applications from **Pivotal Cloud Foundry** to **Kubernetes**
- Heavily contributed to internal libraries, encouraging standardization of several microservice functions (**Cassandra** database interaction, metrics reporting with **Prometheus**, endpoint security via **JWT Bearer tokens**)
- Led initiative to migrate a rule engine system from **IBM ODM** to Spring Boot microservices based on **Apache Drools**
- Additional tools: **pySpark** (data migrations), **Swagger/OpenAPI**, **Docker**, **Kubernetes**

Software Engineer II, Revenue Analytics
Atlanta, GA - Oct 2019 to May 2020

- Worked within a cross-functional team to automate extract-transform-load jobs
- Used **Jupyter Notebook** for prototyping, **pandas** for data transformation/processing, and **AWS Step Functions**, **Batch**, and **Lambda** for automation.
- Understood and implemented complex business requirements for a product oriented towards media ad sales. Ultimate goal was to optimize placement of ads in broadcast schedules to maximize revenue.

Data Scientist / Manufacturing Test Engineer, RWC (StreamLabs Water)
Atlanta, GA - May 2017 to Oct 2019

- Wrote **Python** libraries as well as graphical and command line utilities to retrieve and analyze manufacturing test data (**pandas**, **ggplot2**, **boto3**)
- Developed, prototyped, and tested a lightweight anomaly detection algorithm to identify unusually high water usage - marketed in the product as "Smart Alerts"
- Defined new features from ultrasonic waveform readings, improving the ability of an IoT device to distinguish between plumbing pipe types
- Developed manufacturing quality control tests using visual inspection with webcams (**OpenCV**, **pyQt**)
- Created a **DynamoDB** database and corresponding Python module for tracking programming and activation of StreamLabs Control products
- Documented performance metrics of products on an internal wiki (Confluence)

Contact

Phone
(305) 458-1006

Email
iank1226@gmail.com

Address
1508 Bubbling Creek Rd NE
Brookhaven, GA 30319

Languages

Java

Python

SQL

R

C

Skills

Spring Boot

REST APIs

Spark/PySpark

Pandas

AWS

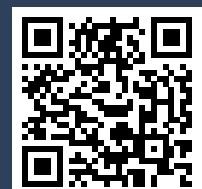Collaboration tools - Jira, Confluence

Education

PhD
Chemical Engineering
University of Florida
Aug 2016

BS
Chemical Engineering
Georgia Institute of Technology
Dec 2011

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